

Application No. 10/030,773
Amendment dated September 5, 2003
Reply to Office Action dated June 5, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended). Glass-plastic composite film, ~~especially for use in electronic components and devices, for example displays, consisting of~~ said composite film comprising a glass film having opposed side surfaces and a thickness between 10 μm and 500 μm , characterized in that and a polymer layer applied on at least one of said side surfaces of said glass film, said polymer layer having a thickness between 1 μm and 200 μm is with said polymer layer being applied directly to said at least one of its said side surfaces faces, and wherein in that at least one side of said composite film on the surface has a waviness of less than 100 nm and a roughness $RT < 30$ nm.

Claim 2 (original). Glass-plastic composite film as per claim 1, characterized in that the optical retardation does not exceed 20 nm.

Claim 3 (currently amended). Glass-plastic composite film as per claim 1, characterized in that the glass film has a streak that is less than 100 nm, ~~preferably < 50 nm, particularly preferably < 30 nm.~~

Claim 4 (previously amended). Glass-plastic composite film as per claim 1, characterized in that both sides of their surface have a waviness of less than 100 nm and a roughness RT of less than 30 nm.

Claim 5 (currently amended). Glass-plastic composite film as per claim 1, characterized in that the glass thickness is 10 to 400 μm , ~~preferably 10 to 200 μm , particularly preferably 10 to 100 μm .~~

Claim 6 (currently amended). Glass-plastic composite film as per claim 1, characterized in that the thickness of the polymer layer is 2 to 100 μm , ~~preferably 2 to 50 μm .~~

Claim 7 (previously amended). Glass-plastic composite film as per claim 1, characterized in that the film is also provided with the polymer layer on at least one of its edges.

Claim 8 (currently amended). Glass-plastic composite film as per claim 1, characterized in that the polymer layer has a modulus of elasticity of $< 5,000$ N/mm², ~~preferably $< 2,600$ N/mm², particularly preferably $< 1,500$ N/mm².~~

Claim 9 (previously amended). Glass-plastic composite film as per claim 1, characterized in that the transmission of the glass-plastic composite film is more than 90% of the uncoated glass film and that the cloudiness as a result of the polymer coating increases by less than 1%.

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Claim 10 (currently amended). Glass-plastic composite film as per claim 1, characterized in that the roughness of the surface RT is < 20 nm, ~~preferably < 10 nm~~, that the waviness of the surface is < 80 nm, ~~preferably < 50 nm, particularly preferably < 30 nm~~ and that the optical retardation does not exceed 15 nm.

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Claim 11 (currently amended). Glass-plastic composite film as per claim 1, characterized in that in continuous use the film is temperature-resistant up to 130°C, and that for short-time heating the film is temperature-resistant up to 140°C, ~~preferably 180°C, particularly preferably 200°C~~.

Claim 12 (previously amended). Glass-plastic composite film as per claim 1, characterized in that the polymer layer consists of a silicone polymer, a sol-gel polymer, a polycarbonate, a polyether sulphone, a polyacrylate, a polyimide, a cycloolefin copolymer, a polyarylate or a silicone resin.

Claim 13 (previously amended). Glass-plastic composite film as per claim 1, characterized in that the glass film consists of an aluminosilicate glass, aluminoborosilicate glass, borosilicate glass, preferably an alkali-free borosilicate glass.

Claim 14 (withdrawn).

Claim 15 (withdrawn).

Claim 16 (withdrawn).

Claim 17 (withdrawn).

Claim 18 (withdrawn).

Claim 19 (withdrawn).

Claim 20 (withdrawn).

Claim 21 (withdrawn).

Claim 22 (withdrawn).

Claim 23 (withdrawn).

Claim 24 (withdrawn).

Claim 25 (withdrawn).

Claim 26 (new). Glass-plastic composite film as per claim 1, characterized in that the glass film has a streak that is less than 50 nm.

Claim 27 (new). Glass-plastic composite film as per claim 1, characterized in that the glass film has a streak that is less than 30 nm.

Claim 28 (new). Glass-plastic composite film as per claim 1, characterized in that the glass thickness is 10 to 200 μm .

Claim 29 (new). Glass-plastic composite film as per claim 1, characterized in that the glass thickness is 10 to 100 μm .

Claim 30 (new). Glass-plastic composite film as per claim 1, characterized in that the thickness of the polymer layer is 2 to 50 μm .

Claim 31 (new). Glass-plastic composite film as per claim 1, characterized in that the polymer layer has a modulus of elasticity of $< 2,600 \text{ N/mm}^2$.

Claim 32 (new). Glass-plastic composite film as per claim 1, characterized in that the polymer layer has a modulus of elasticity of $< 1,500 \text{ N/mm}^2$.

Claim 33 (new). Glass-plastic composite film as per claim 1, characterized in that the roughness of the surface RT is $< 20 \text{ nm}$, that the waviness of the surface is $< 50 \text{ nm}$, and that the optical retardation does not exceed 15 nm.

Claim 34 (new). Glass-plastic composite film as per claim 1, characterized in that the roughness of the surface RT is $< 20 \text{ nm}$, that the waviness of the surface is $< 30 \text{ nm}$, and that the optical retardation does not exceed 15 nm.

Claim 35 (new). Glass-plastic composite film as per claim 1, characterized in that the roughness of the surface RT is $< 10 \text{ nm}$, that the waviness of the surface is $< 80 \text{ nm}$, and that the optical retardation does not exceed 15 nm.

Claim 36 (new). Glass-plastic composite film as per claim 1, characterized in that the roughness of the surface RT is $< 10 \text{ nm}$, that the waviness of the surface is $< 50 \text{ nm}$, and that the optical retardation does not exceed 15 nm.

Claim 37 (new). Glass-plastic composite film as per claim 1, characterized in that the roughness of the surface RT is $< 10 \text{ nm}$, that the waviness of the surface is $< 30 \text{ nm}$, and that the optical retardation does not exceed 15 nm.

Claim 38 (new). Glass-plastic composite film as per claim 1, characterized in that in continuous use the film is temperature-resistant up to 130°C , and that for short-time heating the film is temperature resistant up to 180°C .

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Claim 39 (new). Glass-plastic composite film as per claim 1, characterized in that in continuous use the film is temperature-resistant up to 130°C, and that for short-time heating the film is temperature-resistant up to 200°C.

Claim 40 (new). Glass-plastic composite film as per claim 1 wherein said glass composite film is disposed within an electronic component.
